

Class name : SY CSE(IOT)

Rollno : 2007

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Batch : S1

## EXPERIMENT 6

a) Write a python program to open and write “hello world” into a file?

CODE:-

with open("output.txt", "w") as file:

```
    file.write("hello world\n")
```

```
print("Successfully wrote 'hello world' to output.txt")
```

OUTPUT:-

```
Successfully wrote 'hello world' to output.txt
```

```
Process finished with exit code 0
```

b) Write a python program to write the content “hi python programming” for the existing file.

CODE:-

with open("output.txt", "a") as file:

```
    file.write("hi python programming\n")
```

```
print("Successfully appended 'hi python programming' to output.txt")
```

OUTPUT:-

```
Successfully appended 'hi python programming' to output.txt
```

```
Process finished with exit code 0
```

c) Write a program named copyfile. This program should prompt the user for the names of two text files. the contents of the first file should be input and written to the second file

CODE:-

```
def copy_file():
    input_file_name = input("Enter the name of the input file: ")
    output_file_name = input("Enter the name of the output file: ")

    try:
        with open(input_file_name, "r") as input_file, open(output_file_name, "w") as output_file:
            content = input_file.read()
            output_file.write(content)

        print(f"Contents of '{input_file_name}' copied to '{output_file_name}' successfully.")
    except FileNotFoundError:
        print("One of the files does not exist. Please make sure both files exist and try again.")

if __name__ == "__main__":
    copy_file()
```

OUTPUT:-

```
Enter the name of the output file: op.txt
Contents of 'output.txt' copied to 'op.txt' successfully.

Process finished with exit code 0
```

d) Python program to count frequency of characters in a given file.

CODE:-

```
def count_character_frequency(file_name):
    try:
        # Open the file in read mode
        with open(file_name, "r") as file:
            # Read the contents of the file
            content = file.read()

            # Create a dictionary to store character frequencies
```

```

frequency = {}

# Iterate through each character in the content
for char in content:
    # Increment the frequency count for the character
    frequency[char] = frequency.get(char, 0) + 1

return frequency
except FileNotFoundError:
    print(f"Error: File '{file_name}' not found.")

if __name__ == "__main__":
    file_name = input("Enter the name of the file: ")
    character_frequency = count_character_frequency(file_name)
    if character_frequency:
        print("Character frequency in the file:")
        for char, freq in character_frequency.items():
            print(f"{char}: {freq}")

```

OUTPUT:-

```

Enter the name of the file: op.txt
Character frequency in the file:
P: 1
r: 2
a: 3
s: 1
d: 1
: 1
K: 1
u: 1
m: 1
b: 1
h: 1

```